

Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: GWEN LIANG Examiner #: 79180 Date: 4-18-05
Art Unit: 2162 Phone Number 303-24038 Serial Number: 50424539; 10821687
Mail Box and Bldg/Room Location: RND 3B/11 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: System and Method for Fragment-Based Serialization

Inventors (please provide full names): TEREK, Soner; KALHAN, Ajay; PONNEKANTI, Nagavamsi;
RANGARAJAN, Srikumar; ZWILLING, Michael J.

Earliest Priority Filing Date: 4/19/2004

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Background: the unaddressed need in Serialization.
(See CON pages 1-5)

Concept of invention: (See CON page 5)

Claim 1 (independent claim to focus)

2-13 (dependent claims for overall understanding)
(See CLM pages)

* Assignee: Microsoft Corporation

* Keyword: serialization

* drawings: (show serialization examples, incl prior art) (DRAW pages)



STIC Search Report

EIC 2100

STIC Database Tracking Number: 151055

TO: Gwen Liang
Location: RND 3B11
Art Unit: 2162
Friday, May 13, 2005

Case Serial Number: 10821687

From: Emory Damron
Location: EIC 2100
RND 4B19
Phone: 571-272-3520

Emory.Damron@uspto.gov

Search Notes

Dear Gwen,

Please find below an inventor search in the bibliographic and full-text foreign patent files, as well as keyword searches in the patent and non-patent literature files, both bibliographic and full text.

References of potential pertinence have been tagged, but please review all the packets in case you like something I didn't.

Of those references which have been tagged, please note any manual highlighting which I've done within the document.

In addition to searching on Dialog, I also searched EPO/JPO/Derwent, EBSCO and IEEEExplore.

There may be a few decent references contained herein, but I'll let you determine how useful they may be to you. After our consultation, I reran some databases with your suggestions in mind.

Please contact me if I can refocus or expand any aspect of this case, and please take a moment to provide any feedback (on the form provided) so EIC 2100 may better serve your needs. Good Luck!

Sincerely,

Emory Damron

Technical Information Specialist

EIC 2100, US Patent & Trademark Office

Phone: (571) 272-3520

Emory.damron@uspto.gov

Set	Items	Description
S1	1329	SERIALIZ? OR SERIALIS? OR XMLSERIALIZ? OR XMLSERIALIS? OR - CLRSERIALIZ? OR CLRSERIALIS?
S2	10850	(STORE? OR STORING OR STORAG? OR PROCESS? OR CONVERT? OR C- ONVERS?) (3N)OBJECT?(3N)(BYTE? OR DATA?)
S3	704163	FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCAT? OR INCHOAT?
S4	564781	SEQUENT? OR SEQUENC? OR SEQUEN?(3N)STOR?(3N)(DATA OR DATUM OR BYTE?)
S5	82023	(HEADER? OR TYPE? OR LENGTH?) (20N) (PAYLOAD? OR PAY() LOAD? - OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV?)
S6	1348	LOB OR LOBS OR LARGE () OBJECT? OR LARGEOBJECT?
S7	14345	(FILE? OR DATA?) ()STREAM? OR FILESTREAM? OR DATASTREAM? OR DATATYPE? OR DATA()TYPE? OR COLLECT?()ELEMENT?() (DATA OR DATU- M)
S8	1769	DATAOBJECT? OR DATA()OBJECT?
S9	76	DATAMEMBER? OR DATA()MEMBER?
S10	16876	(RECORD? OR STORE? OR STORAG? OR STORING?) (3N)FORMAT?
S11	56876	(LOCAT? OR SITE? OR ADDRESS? OR PATH? OR MEMBER?) (5N) (PRED- ICT? OR IDENTIF? OR LABEL? OR TAG OR TAGS OR TAGGING OR TAGGED OR FLAG? OR BOOKMARK? OR EARMARK? OR TOKEN? OR ASSOCIAT?)
S12	1587053	ADJACENT? OR NEXT() "TO" OR ABUT? OR PROXIM? OR "NEAR" OR F- LANK? OR BESIDE OR CLOSE
S13	94519	INSTANTIAT? OR UPDAT? OR UP() (DATE? OR DATING?)
S14	1201924	IC=G06F?
S15	2524	S1:S2 AND S3:S9
S16	788	S15 AND S8
S17	31	S16 AND S8 AND (S7 OR S9)
S18	0	S16 AND S9
S19	1642	S15 AND S3:S6
S20	239	S19 AND S1 AND S3:S6
S21	149	S20 AND S10:S14
S22	126	S15 AND S1:S2(5N)S3
S23	8	S22 AND S21
S24	267	S21:S22
S25	164	S24 AND S4:S9
S26	17	S24 AND S11
S27	145	S25 AND S14
S28	139	(S24 OR S27) AND S4
S29	7	(S24 OR S27) AND S5:S6
S30	267	S24 OR S27
S31	18	S30 AND S8:S9
S32	349	S20 OR S21 OR S22 OR S24 OR S25 OR S27 OR S28 OR S30
S33	123	S32 AND (S1 OR S3)/TI
S34	7	S32 AND (S1 AND S3)/TI
S35	17	S32 AND S11
S36	80	S17 OR S23 OR S26 OR S29 OR S31 OR S34:S35
S37	30	S36 AND S33
S38	80	S36:S37
S39	287	PR=2005
S40	80	S38 NOT S39
S41	80	IDPAT (sorted in duplicate/non-duplicate order)
? show files		
File 347: JAPIO Nov 1976-2005/Jan (Updated 050506)		
(c) 2005 JPO & JAPIO		
File 350: Derwent WPIX 1963-2005/UD, UM & UP=200529		
(c) 2005 Thomson Derwent		
?		

PAR LIT
BIBLIO
 FILES

Set Items Description
S1 10859 (STORE? OR STORING OR STORAG? OR PROCESS? OR CONVERT? OR C-
ONVERS?) (3N) OBJECT?(3N) (BYTE? OR DATA?)
S2 23655 (SEQUENT? OR SEQUENC? OR SERIAL?) (5N) (STORE? OR STORING OR
STORAG?)
S3 51157 (FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCA-
T? OR INCHOAT? OR SNIPPET? OR BYTE? OR LENGTH? OR PRIMITIV?) (-
7N) (FIXED? OR STATIC? OR VARIAB? OR COMPLEX?)
S4 82064 (HEADER? OR TYPE? OR LENGTH?) (20N) (PAYLOAD? OR PAY() LOAD?
-
OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV? OR CELL?() REFEREN?)
S5 1350 LOB OR LOBS OR LARGE()OBJECT? OR LARGEOBJECT?
S6 14367 (FILE? OR DATA?) ()STREAM? OR FILESTREAM? OR DATASTREAM? OR
DATATYPE? OR DATA()TYPE? OR COLLECT?()ELEMENT?() (DATA OR DATU-
M)
S7 1770 DATAOBJECT? OR DATA()OBJECT?
S8 76 DATAMEMBER? OR DATA()MEMBER?
S9 1203146 IC=G06F?
S10 20 S1:S2 AND S3 AND S4:S8
S11 16 S10 AND S9
S12 20 S10:S11
? show files
File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)
(c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200530
(c) 2005 Thomson Derwent
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PAT LIT
BIBLIO
FILES
DIFERENT
STRATEG

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Set Items Description
S1 5060 SERIALIZ? OR SERIALIS? OR XMLSERIALIZ? OR XMLSERIALIS? OR -
 CLRSERIALIZ? OR CLRSERIALIS?
S2 12476 (STORE? OR STORING OR STORAG? OR PROCESS? OR CONVERT? OR C-
 ONVERS?) (3N) OBJECT? (3N) (BYTE? OR DATA?)
S3 757202 FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCAT?
 OR INCHOAT?
S4 471969 SEQUENT? OR SEQUENC? OR SEQUEN? (3N) STOR? (3N) (DATA OR DATUM
 OR BYTE?)
S5 113769 (HEADER? OR TYPE? OR LENGTH?) (20N) (PAYLOAD? OR PAY() LOAD? -
 OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV? OR CELL? () REFEREN?)
S6 6570 LOB OR LOBS OR LARGE() OBJECT? OR LARGEOBJECT?
S7 37380 (FILE? OR DATA?) () STREAM? OR FILESTREAM? OR DATASTREAM? OR
 DATATYPE? OR DATA() TYPE? OR COLLECT? () ELEMENT? () (DATA OR DATU-
 M)
S8 4711 DATAOBJECT? OR DATA() OBJECT?
S9 639 DATAMEMBER? OR DATA() MEMBER?
S10 22963 (RECORD? OR STORE? OR STORAG? OR STORING?) (3N) FORMAT?
S11 154221 (LOCAT? OR SITE? OR ADDRESS? OR PATH? OR MEMBER?) (5N) (PRED-
 ICT? OR IDENTIF? OR LABEL? OR TAG OR TAGS OR TAGGING OR TAGGED
 OR FLAG? OR BOOKMARK? OR EARMARK? OR TOKEN? OR ASSOCIAT?)
S12 960742 ADJACENT? OR NEXT() "TO" OR ABUT? OR PROXIM? OR "NEAR" OR F-
 LANK? OR BESIDE OR CLOSE OR CONTIGU?
S13 115330 INSTANTIAT? OR UPDAT? OR UP() (DATE? OR DATING?)
S14 143713 IC=G06F?
S15 367 S1:S2(10N) S3
S16 79 S1:S2(10N) S5
S17 433 S15:S16
S18 249 S17 AND S14
S19 337 S17 AND S7:S11
S20 83 S19 AND S7 AND S8:S9
S21 4 S17 AND S8:S9(5N) S12(5N) S4
S22 0 S19 AND (S1 AND S3) /TI
S23 37 S17 AND (S1 OR S3:S5) /TI
S24 13 S15 AND S16
S25 71 S18 AND S10
S26 67 S25 AND S4
S27 55 S26 AND S11
S28 140 S20:S21 OR S23:S24 OR S27
S29 4 AD=2005
S30 140 S28 NOT S29
S31 140 IDPAT (sorted in duplicate/non-duplicate order)
? show files
File 348:EUROPEAN PATENTS 1978-2005/May W01
 (c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050505,UT=20050428
 (c) 2005 WIPO/Univentio

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PAT Lit
Full
TEAT
FILES

Set	Items	Description
S1	5060	SERIALIZ? OR SERIALIS? OR XMLSERIALIZ? OR XMLSERIALIS? OR - CLRSERIALIZ? OR CLRSERIALIS?
S2	12476	(STORE? OR STORING? OR STORAG? OR PROCESS? OR CONVERT? OR C- ONVERS?) (3N) OBJECT? (3N) (BYTE? OR DATA?)
S3	757202	FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCAT? OR INCHOAT?
S4	471969	SEQUENT? OR SEQUENC? OR SEQUEN? (3N) STOR? (3N) (DATA OR DATUM OR BYTE?)
S5	113769	(HEADER? OR TYPE? OR LENGTH?) (20N) (PAYLOAD? OR PAY() LOAD? - OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV? OR CELL? () REFEREN?)
S6	6570	LOB OR LOBS OR LARGE() OBJECT? OR LARGEOBJECT?
S7	37380	(FILE? OR DATA?) () STREAM? OR FILESTREAM? OR DATASTREAM? OR DATATYPE? OR DATA() TYPE? OR COLLECT? () ELEMENT? () (DATA OR DATU- M)
S8	4711	DATAOBJECT? OR DATA() OBJECT?
S9	639	DATAMEMBER? OR DATA() MEMBER?
S10	22963	(RECORD? OR STORE? OR STORAG? OR STORING?) (3N) FORMAT?
S11	154221	(LOCAT? OR SITE? OR ADDRESS? OR PATH? OR MEMBER?) (5N) (PRED- ICT? OR IDENTIF? OR LABEL? OR TAG OR TAGS OR TAGGING OR TAGGED OR FLAG? OR BOOKMARK? OR EARMARK? OR TOKEN? OR ASSOCIAT?)
S12	960742	ADJACENT? OR NEXT() "TO" OR ABUT? OR PROXIM? OR "NEAR" OR F- LANK? OR BESIDE OR CLOSE OR CONTIGU?
S13	115330	INSTANTIAT? OR UPDAT? OR UP() (DATE? OR DATING?)
S14	143713	IC=G06F?
S15	367	S1:S2(10N)S3
S16	79	S1:S2(10N)S5
S17	433	S15:S16
S18	249	S17 AND S14
S19	337	S17 AND S7:S11
S20	83	S19 AND S7 AND S8:S9
S21	4	S17 AND S8:S9(5N)S12(5N)S4
S22	0	S19 AND (S1 AND S3)/TI
S23	37	S17 AND (S1 OR S3:S5)/TI
S24	13	S15 AND S16
S25	71	S18 AND S10
S26	67	S25 AND S4
S27	55	S26 AND S11
S28	140	S20:S21 OR S23:S24 OR S27
S29	4	AD=2005
S30	140	S28 NOT S29
S31	140	IDPAT (sorted in duplicate/non-duplicate order)
S32	34	S17 AND S1:S2(5N)FRAGMENT?
S33	24	S32 NOT S28
S34	24	IDPAT (sorted in duplicate/non-duplicate order)

SUPPLEMENTAL STRATEGY

Set Items Description
 S1 27482 SERIALIZ? OR SERIALIS? OR XMLSERIALIZ? OR XMLSERIALIS? OR -
 CLRSERIALIZ? OR CLRSERIALIS?
 S2 15504 (STORE? OR STORING OR STORAG? OR PROCESS? OR CONVERT? OR C-
 ONVERS?) (3N)OBJECT?(3N)(BYTE? OR DATA?)
 S3 4676616 FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCAT?
 OR INCHOAT? OR SNIPPET?
 S4 1132279 SEQUENT? OR SEQUENC? OR SEQUEN?(3N)STOR?(3N)(DATA OR DATUM
 OR BYTE?)
 S5 140139 (HEADER? OR TYPE? OR LENGTH?) (20N)(PAYLOAD? OR PAY() LOAD? -
 OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV? OR CELL?()REFEREN?)
 S6 35030 LOB OR LOBS OR LARGE()OBJECT? OR LARGEOBJECT?
 S7 104814 (FILE? OR DATA?) ()STREAM? OR FILESTREAM? OR DATASTREAM? OR
 DATATYPE? OR DATA()TYPE? OR COLLECT?()ELEMENT?() (DATA OR DATU-
 M)
 S8 9491 DATAOBJECT? OR DATA()OBJECT?
 S9 1636 DATAMEMBER? OR DATA()MEMBER?
 S10 102778 (RECORD? OR STORE? OR STORAG? OR STORING?) (3N)FORMAT?
 S11 1323061 (LOCAT? OR SITE? OR ADDRESS? OR PATH? OR MEMBER?) (5N)(PRED-
 ICT? OR IDENTIF? OR LABEL? OR TAG OR TAGS OR TAGGING OR TAGGED
 OR FLAG? OR BOOKMARK? OR EARMARK? OR TOKEN? OR ASSOCIAT?)
 S12 11499952 ADJACENT? OR NEXT() "TO" OR ABUT? OR PROXIM? OR "NEAR" OR F-
 LANK? OR BESIDE OR CLOSE OR CONTIGU?
 S13 274 S1:S2(10N)(S3 OR S5)
 S14 89 S13 AND (S4 OR S6:S9)
 S15 133 S13 AND S1(10N)S3
 S16 16 S13 AND S11
 S17 8 S13 AND S12(10N)(S4 OR S6:S9)
 S18 207 S14:S17
 S19 95 S18 AND (S14 OR S16:S17)
 S20 95 S19 AND PY<2005
 S21 64 RD (unique items)
 ? show files
 File 9:Business & Industry(R) Jul/1994-2005/May 11
 (c) 2005 The Gale Group
 File 13:BAMP 2005/May W1
 (c) 2005 The Gale Group
 File 15:ABI/Inform(R) 1971-2005/May 12
 (c) 2005 ProQuest Info&Learning
 File 16:Gale Group PROMT(R) 1990-2005/May 11
 (c) 2005 The Gale Group
 File 20:Dialog Global Reporter 1997-2005/May 12
 (c) 2005 The Dialog Corp.
 File 47:Gale Group Magazine DB(TM) 1959-2005/May 12
 (c) 2005 The Gale group
 File 75:TGG Management Contents(R) 86-2005/May W1
 (c) 2005 The Gale Group
 File 88:Gale Group Business A.R.T.S. 1976-2005/May 11
 (c) 2005 The Gale Group
 File 98:General Sci Abs/Full-Text 1984-2004/Dec
 (c) 2005 The HW Wilson Co.
 File 141:Readers Guide 1983-2005/Dec
 (c) 2005 The HW Wilson Co
 File 148:Gale Group Trade & Industry DB 1976-2005/May 12
 (c) 2005 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 239:Mathsci 1940-2005/Jun
 (c) 2005 American Mathematical Society
 File 275:Gale Group Computer DB(TM) 1983-2005/May 12
 (c) 2005 The Gale Group

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Text

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File 369:New Scientist 1994-2005/Apr W1
(c) 2005 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
(c) 1999 AAAS
File 484:Periodical Abs Plustext 1986-2005/May W2
(c) 2005 ProQuest
File 553:Wilson Bus. Abs. FullText 1982-2004/Dec
(c) 2005 The HW Wilson Co
File 610:Business Wire 1999-2005/May 12
(c) 2005 Business Wire.
File 613:PR Newswire 1999-2005/May 12
(c) 2005 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2005/May 12
(c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/May 11
(c) 2005 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2005/May 11.
(c) 2005 San Jose Mercury News
File 635:Business Dateline(R) 1985-2005/May 12
(c) 2005 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2005/May 12
(c) 2005 The Gale Group
File 647:CMP Computer Fulltext 1988-2005/Apr W4
(c) 2005 CMP Media, LLC
File 674:Computer News Fulltext 1989-2005/May W2
(c) 2005 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2005/May 11
(c) 2005 The Dialog Corp.
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc
?

Set Items Description
 S1 5461 SERIALIZ? OR SERIALIS? OR XMLSERIALIZ? OR XMLSERIALIS? OR -
 CLRSERIALIZ? OR CLRSERIALIS?
 S2 9137 (STORE? OR STORING OR STORAG? OR PROCESS? OR CONVERT? OR C-
 ONVERS?) (3N) OBJECT?(3N) (BYTE? OR DATA?)
 S3 2560955 FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCAT?
 OR INCHOAT? OR SNIPPET?
 S4 1931668 SEQUENT? OR SEQUENC? OR SEQUEN?(3N) STOR?(3N) (DATA OR DATUM
 OR BYTE?)
 S5 39898 (HEADER? OR TYPE? OR LENGTH?) (20N) (PAYLOAD? OR PAY() LOAD? -
 OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV? OR CELL?() REFEREN?)
 S6 3304 LOB OR LOBS OR LARGE() OBJECT? OR LARGEOBJECT?
 S7 36031 (FILE? OR DATA?) () STREAM? OR FILESTREAM? OR DATASTREAM? OR
 DATATYPE? OR DATA() TYPE? OR COLLECT?() ELEMENT?() (DATA OR DATU-
 M)
 S8 4365 DATAOBJECT? OR DATA() OBJECT?
 S9 158 DATAMEMBER? OR DATA() MEMBER?
 S10 11701 (RECORD? OR STORE? OR STORAG? OR STORING?) (3N) FORMAT?
 S11 318890 (LOCAT? OR SITE? OR ADDRESS? OR PATH? OR MEMBER?) (5N) (PRED-
 ICT? OR IDENTIF? OR LABEL? OR TAG OR TAGS OR TAGGING OR TAGGED
 OR FLAG? OR BOOKMARK? OR EARMARK? OR TOKEN? OR ASSOCIAT?)
 S12 2757830 ADJACENT? OR NEXT() "TO" OR ABUT? OR PROXIM? OR "NEAR" OR F-
 LANK? OR BESIDE OR CLOSE OR CONTIGU?
 S13 957 S1:S2 AND (S3 OR S5)
 S14 277 S13 AND S1 AND S3
 S15 38 S14 AND (S4 OR S6)
 S16 22 S14 AND S7:S9
 S17 3 S14 AND S10:S11
 S18 0 S14 AND S12(10N) (S4 OR S7:S11)
 S19 7 S14 AND S12
 S20 136 S13 AND (S4 OR S6)
 S21 84 S13 AND S7:S9
 S22 19 S13 AND S10:S11
 S23 6 S13 AND S12(10N) (S4 OR S7:S11)
 S24 11 S20 AND S21
 S25 99 S15:S19 OR S22:S24
 S26 99 S25 AND PY<2005
 S27 70 RD (unique items)

? show files

File 2:INSPEC 1969-2005/Apr W4
 (c) 2005 Institution of Electrical Engineers
 File 6:NTIS 1964-2005/May W1
 (c) 2005 NTIS, Intl Cpyrght All Rights Res
 File 8:Ei Compendex(R) 1970-2005/May W1
 (c) 2005 Elsevier Eng. Info. Inc.
 File 34:SciSearch(R) Cited Ref Sci 1990-2005/May W2
 (c) 2005 Inst for Sci Info
 File 35:Dissertation Abs Online 1861-2005/Apr
 (c) 2005 ProQuest Info&Learning
 File 62:SPIN(R) 1975-2005/Feb W4
 (c) 2005 American Institute of Physics
 File 65:Inside Conferences 1993-2005/May W2
 (c) 2005 BLDSC all rts. reserv.
 File 94:JICST-EPlus 1985-2005/Mar W3
 (c) 2005 Japan Science and Tech Corp(JST)
 File 95:TEME-Technology & Management 1989-2005/Apr W1
 (c) 2005 FIZ TECHNIK
 File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Apr
 (c) 2005 The HW Wilson Co.
 File 111:TGG Natl.Newspaper Index(SM) 1979-2005/May 11
 (c) 2005 The Gale Group

Non Pat
Lit

BIBLOC
FILES

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File 144:Pascal 1973-2005/May W1
(c) 2005 INIST/CNRS
File 256:TecInfoSource 82-2005/Mar
(c) 2005 Info.Sources Inc
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info
?

Set	Items	Description
S1	5461	SERIALIZ? OR SERIALIS? OR XMLSERIALIZ? OR XMLSERIALIS? OR - CLRSERIALIZ? OR CLRSERIALIS?
S2	9137	(STORE? OR STORING OR STORAG? OR PROCESS? OR CONVERT? OR C- ONVERS?) (3N) OBJECT?(3N) (BYTE? OR DATA?)
S3	2560955	FRAGMENT? OR SEGMENT? OR INCOMPLET? OR PARTIAL? OR TRUNCAT? OR INCHOAT? OR SNIPPET?
S4	1931668	SEQUENT? OR SEQUENC? OR SEQUEN?(3N) STOR?(3N) (DATA OR DATUM OR BYTE?)
S5	39898	(HEADER? OR TYPE? OR LENGTH?) (20N) (PAYLOAD? OR PAY() LOAD? - OR MEMBER? OR OBJECTMEMBER? OR PRIMITIV? OR CELL?() REFEREN?)
S6	3304	LOB OR LOBS OR LARGE() OBJECT? OR LARGEOBJECT?
S7	36031	(FILE? OR DATA?) () STREAM? OR FILESTREAM? OR DATASTREAM? OR DATATYPE? OR DATA()TYPE? OR COLLECT?() ELEMENT?() (DATA OR DATU- M)
S8	4365	DATAOBJECT? OR DATA()OBJECT?
S9	158	DATAMEMBER? OR DATA()MEMBER?
S10	11701	(RECORD? OR STORE? OR STORAG? OR STORING?) (3N) FORMAT?
S11	318890	(LOCAT? OR SITE? OR ADDRESS? OR PATH? OR MEMBER?) (5N) (PRED- ICT? OR IDENTIF? OR LABEL? OR TAG OR TAGS OR TAGGING OR TAGGED OR FLAG? OR BOOKMARK? OR EARMARK? OR TOKEN? OR ASSOCIAT?)
S12	2757830	ADJACENT? OR NEXT() "TO" OR ABUT? OR PROXIM? OR "NEAR" OR F- LANK? OR BESIDE OR CLOSE OR CONTIGU?
S13	957	S1:S2 AND (S3 OR S5)
S14	277	S13 AND S1 AND S3
S15	38	S14 AND (S4 OR S6)
S16	22	S14 AND S7:S9
S17	3	S14 AND S10:S11
S18	0	S14 AND S12(10N) (S4 OR S7:S11)
S19	7	S14 AND S12
S20	136	S13 AND (S4 OR S6)
S21	84	S13 AND S7:S9
S22	19	S13 AND S10:S11
S23	6	S13 AND S12(10N) (S4 OR S7:S11)
S24	11	S20 AND S21
S25	99	S15:S19 OR S22:S24
S26	99	S25 AND PY<2005
S27	70	<u>RD (unique items)</u>
S28	75	S14 AND (S1 OR S3) /TI
S29	60	S28 NOT S26
S30	42	RD (unique items)
S31	11	S13 AND (S1 AND S3) /TI
S32	0	S31 NOT (S29 OR S25)
?		

Supplemental